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INDUSTRIAL AUTOMATION AND ROBOTICS TECHNICIAN LEVEL 6

ENG/OS/IA/CR/01/6

Maintain Mechanical Systems

July/August 2025

TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

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PRACTICAL ASSESSMENT

INSTRUCTIONS TO ASSESSOR

1. Assess the candidate as the practical progresses observing the critical areas
2. You are required to mark the practical as the candidate perform the tasks
3. You are required to take video clips at critical points
4. Ensure the candidate has a name tag and registration code at the back and front

OBSERVATION CHECKLIST

Candidate's Name **Registration Code**			
Assessors Name **Registration Code**			
Venue of Assessment			
Date of Assessment			
Items to be Evaluated: *Please award marks as appropriate. Give a brief comment on your observation.*	**Marks Available**	**Marks Obtained**	**Comments**
Task 1: Drained Liquid from the Tank			
1. Wore personal safety gear • Overall/dust coat. • Safety boots. • Hand gloves *(Award one mark for each basic gear).*	**3**		
2. Turned off the air compressor before draining the tank. *(Award 1 mark)*	**1**		
3. Placed a drain pan under the drain plug at the bottom of the tank. *(Award 1 mark)*	**1**		
4. Opened the tank relief valve until pressure was reduced to 30 PSI or less *(Award 1 mark)*	**1**		
5. Unscrewed the drain plug and allowed moisture to drain completely *(Award 2 marks)*	**2**		
6. Re-tightened the drain plug properly (not overtightened). *(Award 2 marks)*	**2**		
Sub-Total 1	**10**		

Task 2: Checked and Inspected Fasteners, Hoses and Electrical Connections			
7. Tested all nuts, bolts, and screws with appropriate tools *(Award 2 marks)*	**2**		
8. Tightened all loose fasteners correctly (not overtightened). *(Award 1 mark)*	**1**		
9. Turned off and unplugged the compressor before checking connections. *(Award 1 mark)*	**1**		
10. Inspected all electrical connections for looseness or damage. *(Award 2 marks)*	**2**		
11. Tightened loose connections appropriately. *(Award 1 mark)*	**1**		
12. Checked hoses for leaks, cracks, or other damage. *(Award 1 mark)*	**1**		
13. Checked connectors for leaks or loose fittings. *(Award 1 mark)*	**1**		
Sub-Total 2	**9**		
Task 3: Cleaned External Components and Changed Air Filters			
14. Inspected air intake vents, fan grates, and cooling fins for dirt build up. *(Award 2 marks)*	**2**		
15. Used compressed air or a soft brush to clean dust and debris. *(Award 2 marks)*	**2**		
16. Unplugged the compressor before accessing filters. *(Award 1 mark)*	**1**		
17. Removed and inspected air filter for dirt or damage. *(Award 2 marks)*	**2**		
18. Replaced or cleaned the filter as per manufacturer's recommendations. *(Award 2 marks)*	**2**		

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Sub-Total 3	**9**		
Task 4: Checked Oil Level and Changed Oil			
19. Checked oil level before compressor operation and warmed up before draining. *(Award 2 marks)*	**2**		
20. Turned off and unplugged the unit before oil change. *(Award 2 marks)*	**2**		
21. Drained the old oil properly and replaced the drain plug. *(Award 2 marks)*	**2**		
22. Refilled oil to the correct level and replaced fill plug. *(Award 2 marks)*	**2**		
23. Checked safety valves and pressure release mechanisms and ensured mechanisms were functional *(Award 3 marks)*	**3**		
Sub-Total 4	**11**		
Task 5: Performed Housekeeping			
24. Cleaned workspace and disposed waste properly *(Award 1 mark)*	**2**		
25. Ensured compressor was left in proper operating condition and returned tools to the store *(Award 2 marks)*	**2**		
Sub-Total 5	**4**		
Grand Total	**43**		
% = $\frac{x}{43}$ X 100			
ASSESSMENT OUTCOME			
The candidate was found to be: *(Please tick as appropriate)* Competent ☐ Not yet Competent ☐			

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(The candidate is competent if the candidate obtains at least 50%)
Feedback from the Candidate:
Feedback to the Candidate:
Candidate Signature **Date:** _____ _____
Assessor's Signature **Date** _____ _____

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